MW100

New Mammography Standard

Beyond Your Imagination

WIDE

Caring for You with the New Standard

An improved image quality makes a world of difference when it comes to life critical situations. That is why WIDE is introducing the new 10 Mega-Pixel Self-Calibrating medical display for Mammography. The MW100 features unprecedented contrast coupled with ultra-high brightness and industry leading luminance uniformity performance. A new advanced on-board QA sensor (IQ Sensor™) provides the highest level of confidence to satisfy the demanded performance of the medical imaging standard. The MW100 works to secure life changing decisions made every day, and protects your confidence that you have the best tool possible at your reach. The MW100 creates the new standard for the mammography display industry.

New Definition of Future Standard

PRECESION

True 10-bit TFT LCD expresses the most ideal performance of medical imaging display. A built-in 14-bit Look-Up-Table (LUT) also contributes to maximize its outstanding performance.

UNIFORMITY

On-board Luminance Uniformity Correction (LUC) function brings the most neutralized uniformity result on the display

CONFIDENCE

An embedded Self-calibration sensor(IQ Sensor™) maintains the display wit accuracy and consistency.

ERGONOMICS

PrivateLite™, front positioned USB input, foldable control center and a very unique stand-base called SmartStand™ offers the exceptional conveniences to users.

ART AND BEAUTY

There has never before been such art and beauty in the history of medical display industry.

ENVIRONMENT

More recyclable and more energy efficient display.

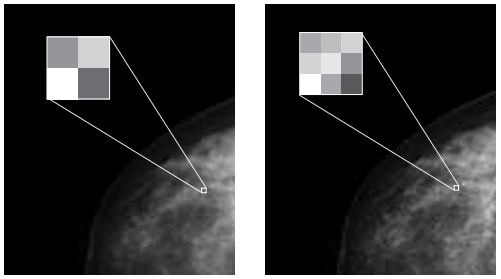
Re-defined

Ultimate True 10-Bit Imaging Expression

The MW100 uses a true 10-bit TFT LCD panel, allowing extremely high level of grayscale expression. This means that the MW100 will express smoother and more accurate transitions from gray to gray versus 8-bit panel.

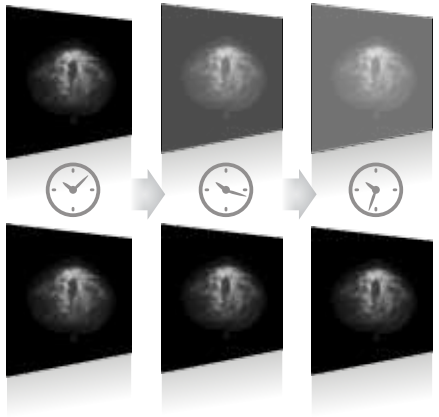
More Precise Expression Thanks to 14-Bit LUT

When viewing monotone scans, the 14-bit grayscale Look-Up Table (LUT) has the ability to express a billion of grayscale tone. This 14-bit LUT architecture renders each grayscale level with maximum precision and performance in connection with true10-bit TFT LCD driving performance. As a result, the MW100 offers highest grade of imaging performance for the mammography application.



Longevity of Display Lifetime for Great Luminance

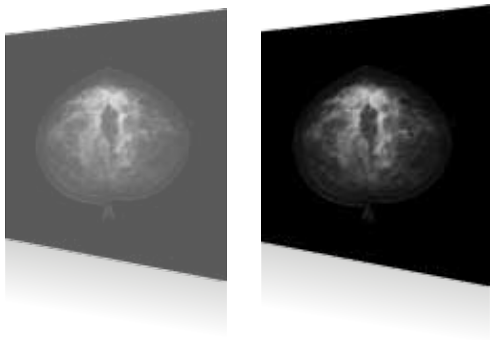
The MW100 is able to guarantee maximum luminance level of nearly 1250cd/m^2. Its superior luminance will carry longer display lifetime, as well as very broaden diagnostic workflow. This includes mammography, CT/MRI, ultrasound and other imaging processes.



Re-Designed

A Consistent View from Every Angle

Thanks to the superior IPS technology, a built-in TFT LCD panel provides the world's top class wide-viewing angle performance. It allows you and your co-worker to view the uniform and consistent image quality from any viewing angle.

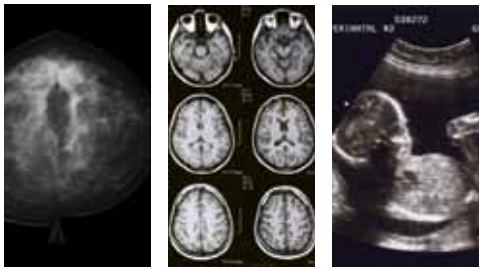


Maximum Luminance Uniformity from Edge to Edge

Medical imaging displays demand highly accurate luminance uniformity across the screen. However uniformity is very difficult to achieve because of how TFT LCD display is constructed. The MW100's on-board Luminance Uniformity Correction (LUC) function normalizes luminance from edge to edge. Furthermore the MW100's On-screen display function offers the flexibility of use-configurable preferences along with its pre-calibrated multi-level uniformity adjustments.

More and Broaden Multi-Diagnostic View Modes

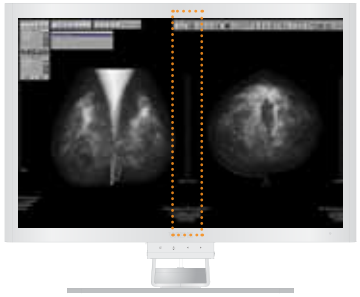
The MW100 has various pre-calibrated viewing modes including Mammography-High, Mammography-Normal, CT/MRI, Ultrasounds, and USER mode. These viewing-modes are easily selectable with the view-mode button on the front control center. The USER mode also can be uploaded with its preference display configurations using bundled calibration software by the end-user or technician.



Re-Engineered

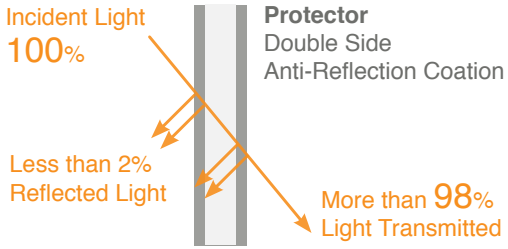
More Productivity due to Bezel-Free

The MW100 not only broadens the display view, but furthermore extends to provide more space on the working desktop with its bezel-free architecture. A 30-inch diagnostic display offers more flexibility and productivity compared to two of 5MP displays.



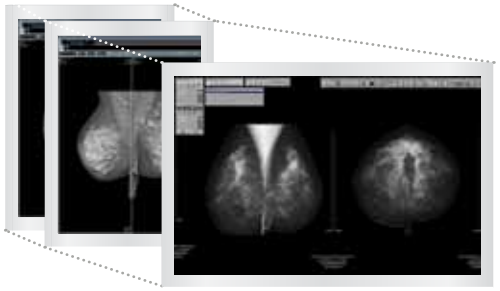
Clear Look through Double-Coating

Less light is lost through an anti-reflection coating, and therefore improves the efficiency of the system. The reduction of reflection also improves the contrast of the image by elimination of stray light. Thanks to the double-side Anti-Reflection coated material, WIDE's new protective glass has nearly zero loss of trans-mittance.



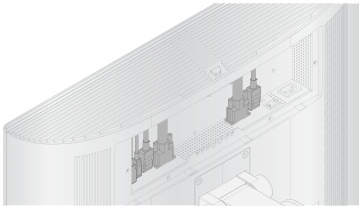
Smart Replacement and Plug'N'Display Technology

Because of WIDE's in-house intelligent circuitry solution, it's now very easy to replace the existing dual-head of 5 Mega-Pixel displays to a single of MW100. Control with the embedded Plug'N'Display capability, through either DVIs or Dislay-Ports connectivity, a new installation of MW100 can be easily accomplished.



Broaden PC Connectivity (DVI and Display Port)

DisplayPort recently has become a common interface for PC connectivity because compared to the DVI technology it can deliver more data and bit-rate in color and grayscale. The MW100 is equipped with two of DVIs and two of DisplayPort connectivity. These broad interfaces give more flexibility to support both old and new PC systems. The MW100 automatically detects the connectivity in use between DVI and DisplayPort.

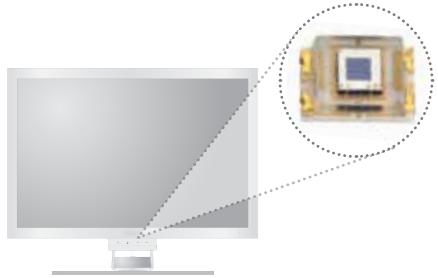


Monitor Self-Diagnostic Technology (SmartCare™)

For service purposes, the MW100's unique on-board Monitor Self-Diagnostic function increases its effectiveness of the monitor maintenance. When the Monitor Self-Diagnostic function is activated, the result confirms overall monitor status by showing the result on the On-screen-display menu. When contacting with service technician, the end-user can effectively figure out whether the monitor works properly or not, and it offers a very effective way to communicate with service technician.

Continuous DICOM Compliant Imaging with Embedded IQ Sensor™

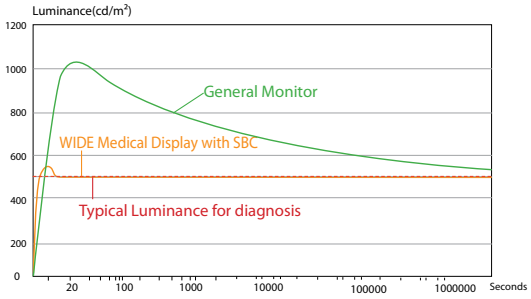
The built-in IQ Sensor™ automatically calibrates the MW100 display to conform to DICOM Part 14. The new advanced IQ Sensor™ offers the increased read-out accuracy and enhanced sensitivity down to the lower luminance levels because of the high resolution and the advanced sensor technology. Its bundled calibration software offers very ease to the calibration workflow.



Re-Produced

Constancy of Backlight Luminance (SBC)

On-board luminance correlation sensor called SBC (Self-Brightness Control), detects the luminance change of the backlight. It also automatically adjusts the luminance of the LCD backlight to reach its user predefined level to maintain the best consistency of image quality and LCD backlight stabilization. The SBC sensor constantly monitors the luminance output of the backlight and adjusts its brightness level when necessary.



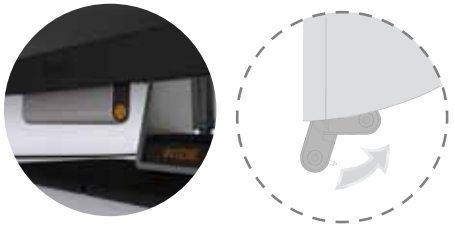
LCD Backlight Lifetime

Digital Ambient Control Sensor (DAC)

MW100 has a measurement sensor called DAC (Digital Ambient Control) for ambient measurement in the reading room. It is very critical that the reading room maintains its best condition in accordance with the guideline for the reading room maintenance. The DAC, which is housed in the front bezel, constantly monitors the light conditions in the reading room in connection with bundled QA software.

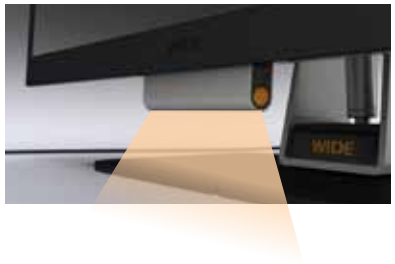
Haptic Control Center

The control box called SmartCenter gives a very high confidence to keep its adjustment configuration safe, by folding underneath the bottom of the display. Its user friendly On-screen display also makes the stress-free adjustments along with a unique confirmation feedback technology named Haptic Sensor.



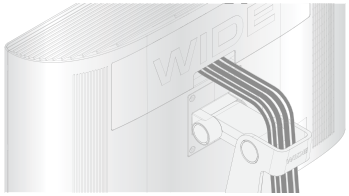
LED Light Lamp (PrivataLite™) WIDE Patent Protected

Diagnostic work-process has to be performed in a very dark room under its guidance.The MW100's on-board private LED light lamp called PrivataLite™ offers very convenient working environment by eliminating the need of turning the room lights on. The PrivataLite™ provides adjustable light source to easily access paper documents in such environment.



Cable Alignment Room

The MW100 equips with cable alignment room for all of cables needed to operate in the back side of the display. It centralizes all cables for a well-ordered and well-aligned look.

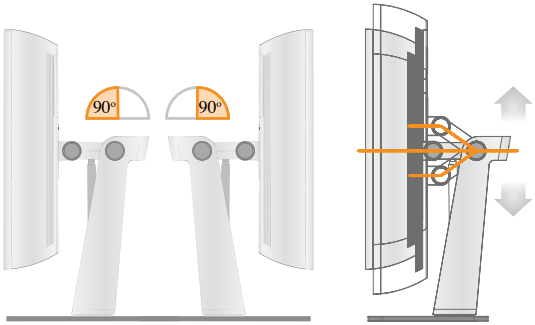


USB Connectivity

The MW100 display equips one upstream USB port and three downstream ports. One of downstream ports is located on the front of the display so it is very convenient to download or upload any data from or to PC.

Flexible and Easy Configuration (SmartStand™) WIDE Patent Protected

Due to WIDE patent protected technology, the MW100 is able to support a very unique and innovative adjustment mechanism allowing the user to easily control its height, tilt, and swivel, making it a true one of a kind.



Technical Specifications

LCD Panel	TFT AMLCD IPS Grayscale, True 10-bit Grayscale
Native Resolution	4096(H) x 2560(V)
Pixel Pitch	0.158mm x 0.158mm
Active Display Area	645.12mm x 403.20 mm (25.4”x15.9”)
Active Screen Size (Diagonal)	760.76mm (30.0”)
Viewing Angle (Typical)	170°(H) x 170°(V) at 10:1 Contrast Ratio
Brightness Max.	1,250cd/m^2
Brightness Calibrated	500cd/m^2
Contrast Ratio (Typical)	850:1
Bit-rate for Look-up Table	14-bit
Luminance Uniformity Correction	5 Levels selectable between Min and Max
DICOM View Mode	Mammography Normal, Mammography High, CT/MRI, Ultrasound, User
Digital Video Input	DVI-D (2x) and DisplayPort (2x)
Display Communication	DDC2B (VESA Standard Compliance)
Built-in Sensors	IQ Sensor™, SBC*, DAC**
Private LED Lamp	Yes (PrivateLite™)
Universal Serial Bus(USB)	1 up and 3 down-streams
Display Adjustments	Haptic Buttons (Menu, Enter, Left, Right, DICOM), Power On/Off
OSD Languages (9 languages)	English, Dutch, French, Spanish, Italian, Russian,
	Chinese, Japanese, Korean
Input Power	AC Input 100-240Volt+/-10%, 60Hz/50Hz+/-3Hz
Power Consumption	Max: 150 Watts / Power Save Mode: less than 2 watt
Dimension	738.0mm(W) x 609.0mm(H) x 302.5mm(D) (29.0” x 23.97” x 11.9”)
Weight	With Stand-base: 22Kg (48.50lb) / Without Stand-base: 16Kg (35.27lb)
Tilt/Swivel/Height Adjustment	-3°,+15°/+90°,-90°/110mm
Mounting Hole	VESA Standard (100x100mm)
Operational Temperature	0°C to 40°C (32°F to 104°F)
Operational Humidity	10% to 80%
Storage Temperature	-20°C to 60°C (-4°F to 140oF)
Certifications and Standards	FCC Class B, CE, VCCI Class B, KCC, ICES-003-B, C-Tick
	UL60601-1,CE,CSA Std., C22.2 No.601.1, IEC/EN60601-1

* SBC: Self-Brightness Control, ** DAC: Digital Ambient Control

Green Specifications

- Less power consumption compared to typical of two 5 Mega-Pixel displays (about 20%)*1)
- Less than 2 watt power consumption in power saving mode
- Nearly zero power consumption in power-off mode
- Zero hazardous substance for RoHS
- Longer life-time guarantee because of a great brightness of LCD technology combined with WIDE's energy saving technology
- 100% recyclable material (aluminum) use for the monitor stand-base
- Recyclable and recycled materials used
  (resin, stand-base, CD, user's manual, packing box, cushion etc.)

WIDE's GREEN PHILOSOHY

WIDE fully recognizes the importance of corporate responsibility and that role for our environment. WIDE commits that all future design, development and manufacturing will take into consideration these three key elements that comprise the WIDE GREEN Initiative: Products being designed and developed have to have ECO-innovative features and technologies in order to maximize energy efficiency. All products will use recyclable or recycled materials as well as RoHS compliant materials. Process is the second key element in the WIDE GREEN Initiative. WIDE proactively participates in global energy saving and hazardous substance restricting programs. People and partners of WIDE Corporation must fully understand and recognize the importance of WIDE's GREEN Initiative. WIDE Corporation provides employees and partners continuing education on the WIDE GREEN Initiative.

Taking Caring of Your Health and Our Earth

Designing a line of LCD displays that was not only industry leading in performance and technology but helped protect our environment was essential. The WIDE GREEN initiative was launched. Our new X-Series displays have been developed and designed with ECO-innovative features, technologies and recycled and recyclable materials without using any harmful substance to fully meet RoHS requirements.

---

*1) Bases on WIDE internal test and measurement methodology compared to WIDE standard 5MP displays.

The New Standard of Mammography Display Systems

The MW100 is architected with the most optimized size and resolution format to replace the current standard of 5 Mega-Pixel displays. Two units of MW100 will provide the highest efficiency to the workflow. Each screen displays a pair of breast images in 1:1, fully scaled, and total of four breast images will be presented on the screen at the same time. The MW100 cuts down all unnecessary manipulation of computing works such as zooming in/out and panning. It effectively saves time in the workflow of diagnostic process.

WIDE

WIDE KOREA | 456, Gomae-dong, Giheung-gu, Yongin-si, Gyeonggi-do, 446-901, Korea Tel: +82-31-218-1600 Fax: +82-31-274-7400 info@widecorp.com **WIDE USA** | 8 Hammond St., Suite #114 Irvine, CA 92618, USA Tel: +1-949-305-9933 Fax: +1-949-305-5452 infousa@widecorp.com **WIDE EUROPE B.V.** | Hullenbergweg 413, 1101 CS Amsterdam, Zuidoost, The Netherlands Tel: +31-20-311-9797 Fax: +31-20-311-9790 infoeu@widecorp.com **WIDE JAPAN** | 711, 6-9-1, Nishi-Shinjuku, Tokyo, 160-0023, Japan Tel: +81-3-6304-5604 Fax: +81-3-6304-5604 infojapan@widecorp.com

Specifications and features are subject to change without notice. Images shown are for illustrative purpose only. All products names are trademarks or registered trademarks of WIDE Corp. This document is copyrighted. Neither this document, nor any part of it, may be reproduced or copied without written permission of WIDE Corp. | Printed in Korea. 2011. 01. Ver 1.0